Transient secondary emission S/109/63/008/002/016/028 1000 ev. The neutral alkali atom beams were obtained by the technique of resonant overcharge of ions in a stream of the alkali metal vapor. A form of the double modulation method was used for making the measurements. All the results go to show that the secondary emission effects from the action of neutral atoms do not differ qualitatively from those produced by positive ions of the same element. There are 5 figures. The most important English-language reference reads as follows: R.M. Chaudry, A.W. Khan, Proc. Phys. Soc., London B., 61, 1948, 526. SURMITTED: March 19, 1962	ZVIESTELS
1000 ev. The neutral alkali atom beams were obtained by the technique of resonant overcharge of ions in a stream of the alkali metal vapor. A form of the double modulation method was used for making the measurements. All the results go to show that the secondary emission effects from the action of neutral atoms do not differ qualitatively from those produced by positive ions of the same element. There are 5 figures. The most important English-language reference reads as follows: R.M. Chaudry, A.W. Khan, Proc. Phys. Soc., London B., 61, 1948, 526.	
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ACCESSION NR: ARSO16006	UR/005"/65/000/005/H081/H081
OURCE: Ref. zh. Fizika, Abs. 5Zh542 UTHORS: Arifov, U. A.; Flyants, E. K.; Ra ITLE: Concerning the role of the ion char	chimov, R. R. B
CITED SOURCE: Dokl. AN UZSSR, no. 10, 1964, FOPIC TAGS: electron emission, kinetic emission, charge exchange PRANSLATION: The authors investigated the electrons and atoms of Na and K in the energy region of a tom a source, as for the production of a jet of alkali-met of atoms was obtained by the method of charge arent vapor. Their intensity was determined to the coefficient of vapor. The independence of the coefficient 1/2	lectron emission of Mo bombarded with ion E = 500-4500 eV. The experiments strument described previously (NZhFiz, a charge-exchange chamber with apparatal vapor, and a collector. The stream e-exchange of iors in a jet of the d from measurements of the current of

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ACCRESION MR. APSO16005

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SCURCE: Ref. zh. Fizika, Abs. 57h540

AUTHORS: Arifov, U. A.; Flyants, R. R.; Rakhimov, R. R.

TITLE: Emission of electrons and negative ions from potassium films under the influence of bombardment with ions and atoms of sodium

CITED SOURCE: Dokl. AN UZSSR, no. 10, 1964, 18-21

TOPIC TAGS: electron emission, ion emission, potassium film, work function, thermionic emission, secondary emission

TRANSLATION: A double-modulation oscillographic method was used to investigate the emission of electrons and of negative ions from films of K (on Mo) bombarded with Na ions and atoms of energy 150-4500 eV. The experiments were made with an instrument analogous to that described earlier (RZhFiz, 1963, 11'h394) in a vacuum of 1 × 10⁻⁵ mm Mg. The change in the work function of Mo following absorption of K was monitored by observing the thermionic emission. It is established that with increasing thickness of the film the coefficients of secondary electron emission, negative ion emission, and thermionic emission experience a characteristic maximum. At relatively small film thickness, when the work function of the surface is

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ARIFOV, U.A., akademik; FLYANTS, N.N.; RAKHIMOV, R.R.

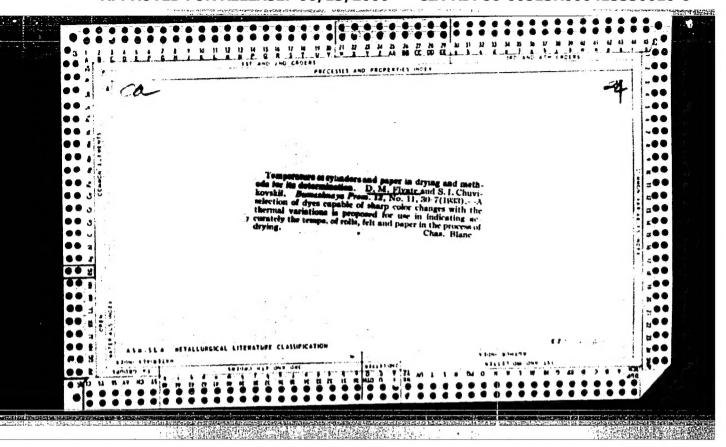
Role of the ionic charge in the kinetic emission of electrons. Dokl. AN Uz.SSR 21 no. 10:15-17 64 (MIRA 19:1)

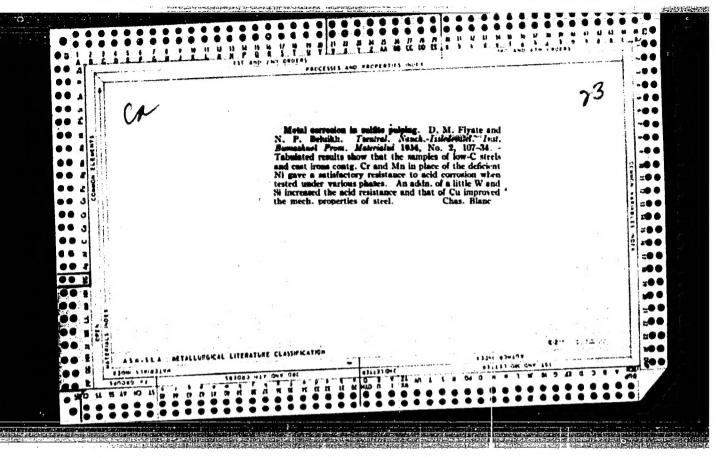
Emission of electrons and negative ions from potassium films during the bombardment with sodium ions and atoms. Ibid.:18-21

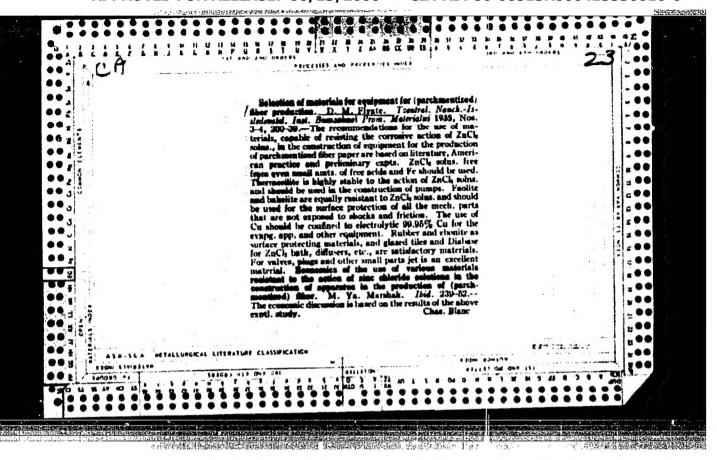
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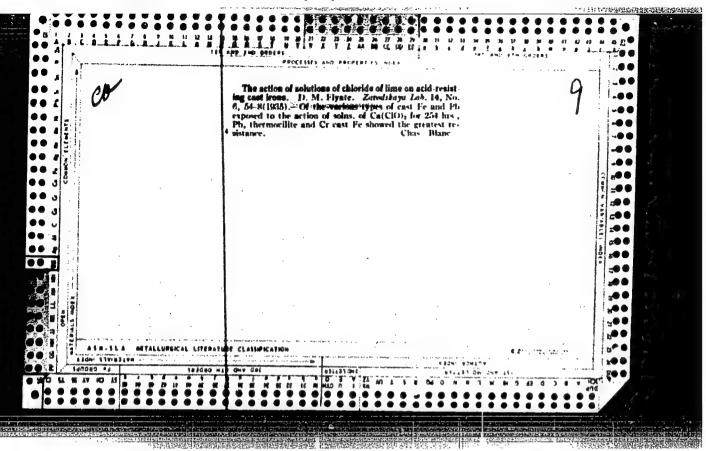
SOPIN, Yevgeniy Fedorovich; BOGACH, P.G., dotsent, otv.red.; FLYASHNIKOV,
B.N.. red.; KHOKHANOVSKAYA, T.I., tekhn.red.

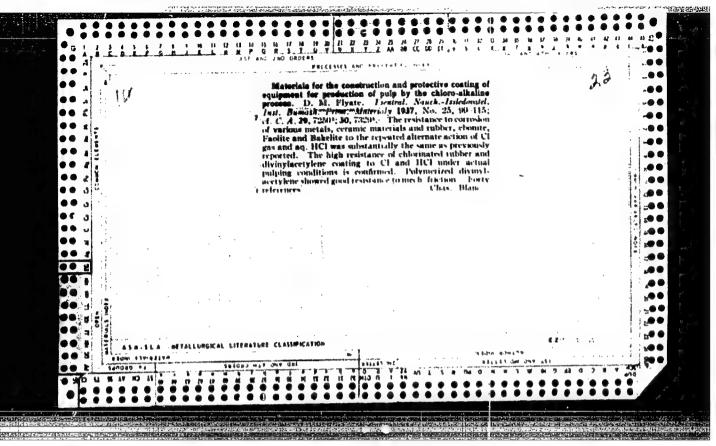
[Fundamentals of muscle biochemistry] Osnovy biokhimii myshts.
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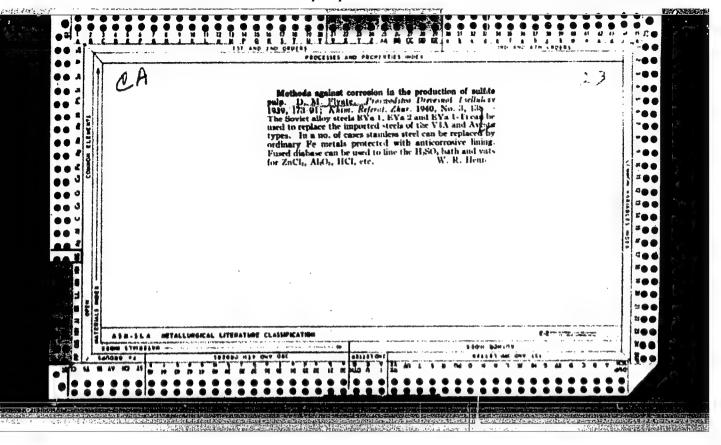


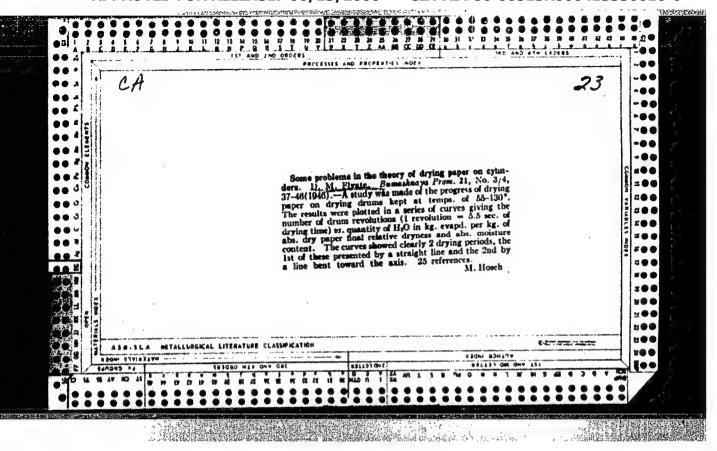


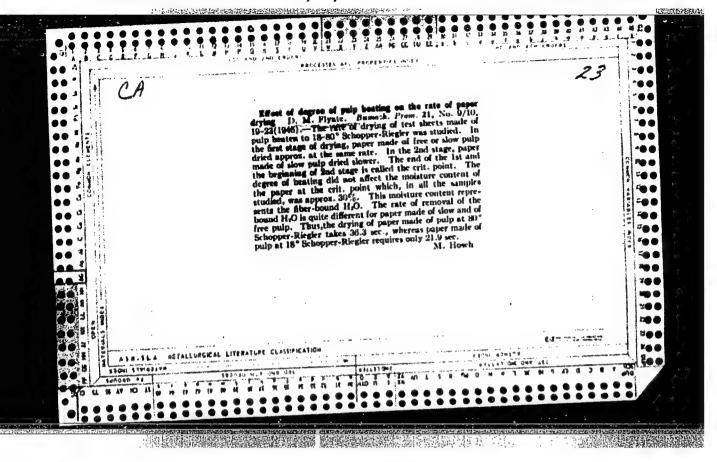


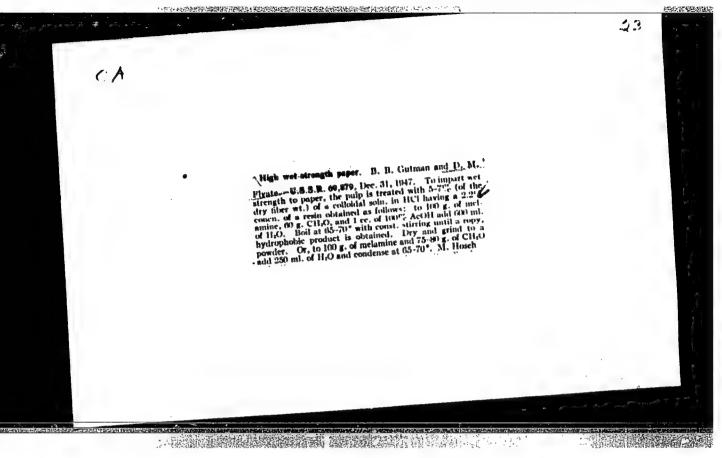


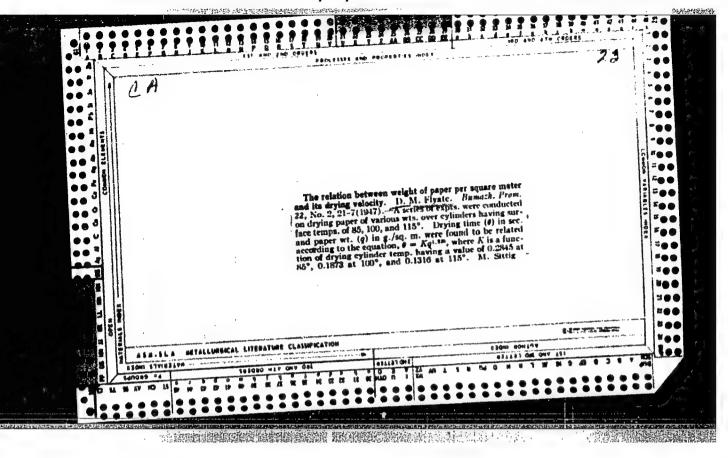


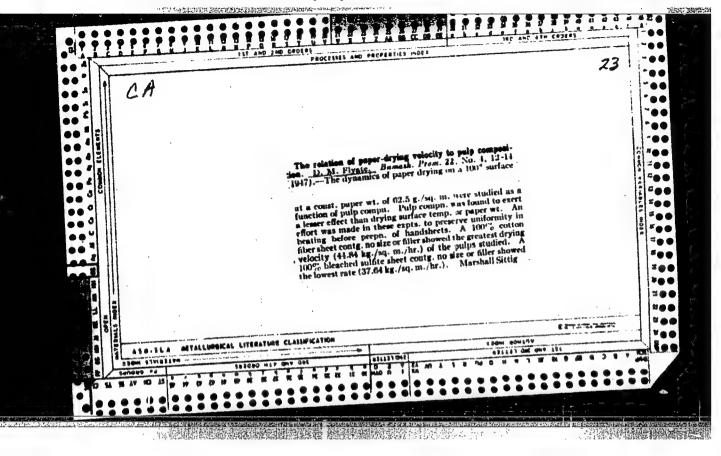


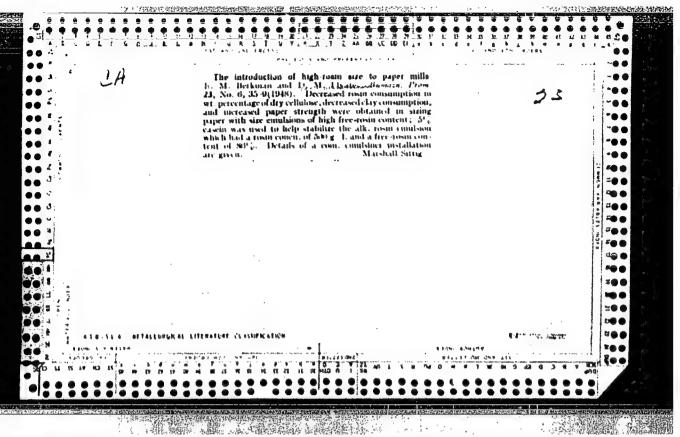












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FLYATE, D. M. - "Dependence of the speed of drying of paper on the intifal wetness of the sheet of paper," Materialy Tsentr. nauch. issled. in-ta bumbazh. prom-sti, Issue 37, 1948, p. 203-10

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with increasing clay up to 24%, the tensile strength decreases by 60%. For the sheets in which the clay is replaced by an equal wt. of fiber, the tensile strength increases amonthly; the vertical interval between the 2 curves gives the percentage decrease in tensile strength and also permeability of paper. D. M. Phylic. Brown. 25, No. 2, 21–4(1080).—Theoretical convincentations of the effect of filter on paper properties are presented. The effects of the addit of clay filter on the tensile strength and air permeability of paper are studied. A fully bleached suffice pulp is beaten to 45° S.-H. in a lab, beater, the test sheets are perend, on a modern sheetmaking machine, varying amits, of Turbovski clay are added (clay deal) with content), and 20 prior to testing. The tendies strength test values are respected with a passion of readier occape of vapor from the larger confliction of the filled sheet. From theoretical considerations it is shown that the velocity of penetration of industrial production of the grade, without filler, in the case of sheets at a const. the sheets with filter, in the case of sheets at a const. the sheets with filter, in the case of sheets at a const. the content of 00 g./sq., m. but with increasing cap content, the air percentage of the filter occapillaries is increased with increasing capillary radius (assumed for paper centre filter), which helps explain why paper 100% and the recovery of the filter occapillaries is increased with increasing capillary radius (assumed for paper centre filter), which helps explain why paper 100% all the velocity of penetration of liquids into capillaries is increased with increasing capillary radius (assumed for paper centre filter), which helps explain why paper 100% and the content of the grade of the filter occapillaries is increased with increasing capillary radius (assumed for paper

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Calculating the necessary number of drying cylinders. Bum. prom. no. 6, 1951. Kand. Tekhn. Nauk	
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- 4. Paper
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BERKMAN. Ye.M.: FLYATE, D.M.

The sixing agent in paper rosin size. Bum. prom. 28 no.6:9-14 Je '53.

(Gums and resins) (Paper industry)

FLYATE, D. H.

USSR/Miscellaneous - Manufacturing

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Authors

Flyate, D. M., Cand. Tech. Sci.

Title

Paper bottles

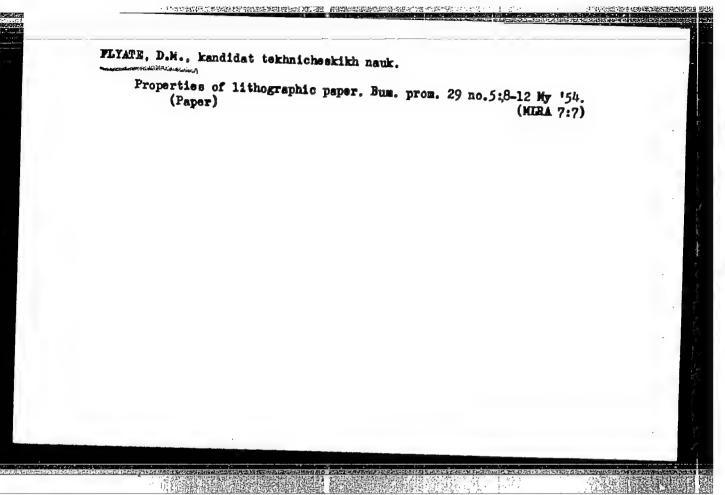
Periodical : Nauka i zhizn' 21/9, page 38, Sep 1954

Abstract

A description is given of the working of a machine on exhibit at the All-Union Agricultural Exposition in Moscow which makes 3,600 pint-sized bottles per hour out of paper treated with paraffine. Illustrations.

Institution :

Submitted



F-14, 5, 2, 21

ALEKSEYEV, A.A., inzhener, redaktor; ASHERNAZI, K.M., doktor tekhnicheskikh nauk, redaktor; GRABOVSKIY, V.A., kandidat tekhnicheskikh nauk, redaktor; GOHBACHEV, A.N., kandidat tekhnicheskikh nauk, redaktor; IVANOV, S.N., kandidat tekhnicheskikh nauk, redaktor; LARIN, P.S., kandidat tekhnicheskikh nauk, redaktor; PUZYREV, S.A., kandidat tekhnicheskikh nauk, redaktor; RYUKHIN, N.V., kandidat tekhnicheskikh nauk, redaktor; FLYATE, D.M., kandidat tekhnicheskikh nauk, redaktor; SHAPIRO, A.D., kandidat tekhnicheskikh nauk, redaktor; ELIASHBERG, M.G., kandidat tekhnicheskikh nauk, redaktor; ELIAS

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Bum.prom.31 no.4:22-25 Ap \$56. (MLRA 9:7)

(Containers) (Paper--Specifications)

1. 人名 电影子的特别的影影的特别的意思的影响的 医多种性结肠的现代的现代 化二十二十二

FLYATE, David Moiseyevich, kand.tekhn.nauk; SASONKO, V.G., red.; SARMATSKAYA, G.T., red.izd-va; SHITS, V.P., tekhn.red.

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(United States--Papermaking machinery)

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Present-day achievements in the manufacture of felts for the paper industry. Bum. prom. 33 no. 6:12-14 Je '58. (MIRA 11:7)

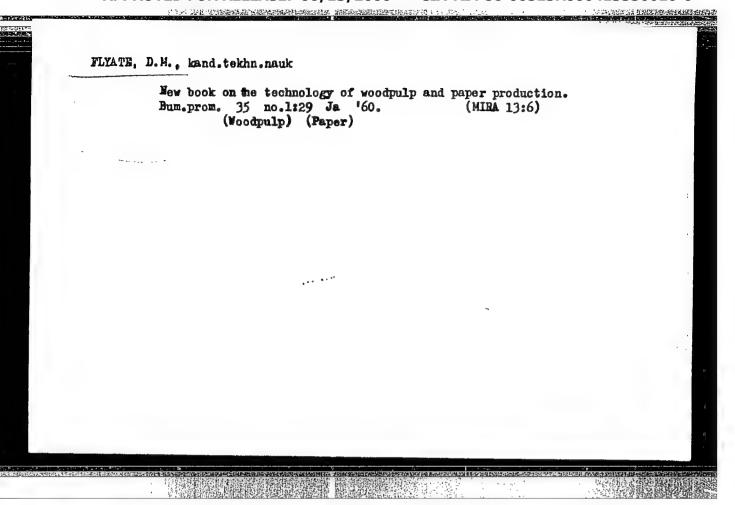
(Paper industry--Equipment and supplies)

IVANOV, Sergey Nikolayevich. Prinimal uchastiye EYDLIN, I.Ya., kand. tekhn.nauk. MUDRIK, V.I., kand.tekhn.nauk, retsenzent; PEREKAL'SKIY, N.P., retsenzent; FLYUTE, D.M., red.; SIDEL'NI-KOVA, L.A., red.izd-va; BACHURINA, A.M., tekhn.red.

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[Water purification structures in woodpulp production; a textbook on a diploma Project for students of the Faculty of Chemistry and Technology] Vodochistnye sooruzheniia tselliulozno-bumazhnogo proizvodstva; posobie po diplomnomu proektirovaniiu dlia studentov khimiko-tekhnologicneskogo fakuliteta. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1902. 83 p. (MIRA 18;3)

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[Some calculations for the production of sulfite pulp with a sodium base] Nekotorye reschety po proizvodstvu sul'fitnoi tselliulozy na natrievom osnovanii; metodicheskoe posobie k diplomnomu proektirovaniiu dlia studentov khimiko-tekhnologi-cheskogo fakul'teta. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1962. 112 p. (MIRA 16:8)

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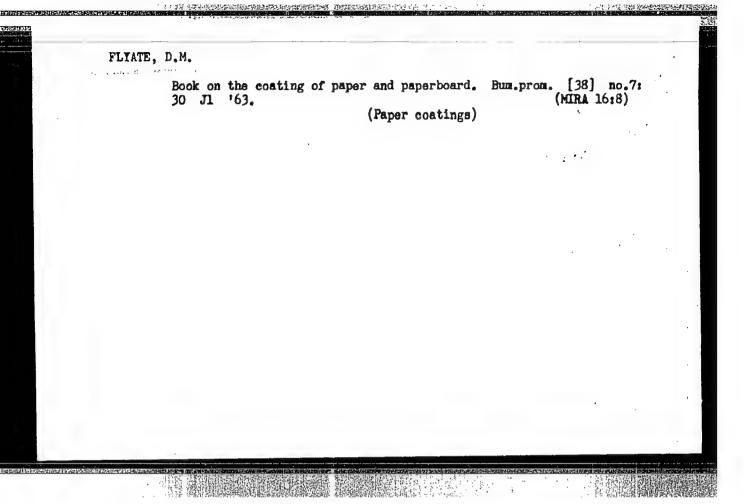
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"Efficiency of Donbass combines in Poland. Biuletyn."

p. 1 (Przeglad Gorniczy) Vol. 12, no. 2, Feb. 1956 Katowice, Poland

SO: Monthly Index of East European Accessions (EEAI) 16. Vol. 7, no. 4, April 1958

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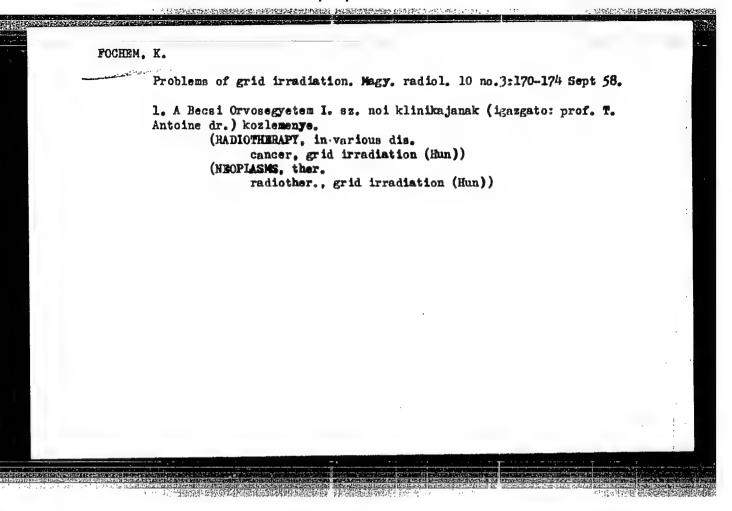
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FOBER, H., Kempinski, S.; Ledwoch, Z.

The results of working with the Donbas combines in Poland. p. 3. (PRACE. No. 17, 1956, Katowice, Poland)

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BIEDA, S.; FOCHEM, K.

Role of the anterior height of the pelvis in labor prognosis. Ginek. pol. 33 no.6:717-722 '62.

1. Z I Kliniki Chorob Kobiecych Uniwersytetu w Wiedniu Kierownik Kliniki: prof. dr T. Antoine.

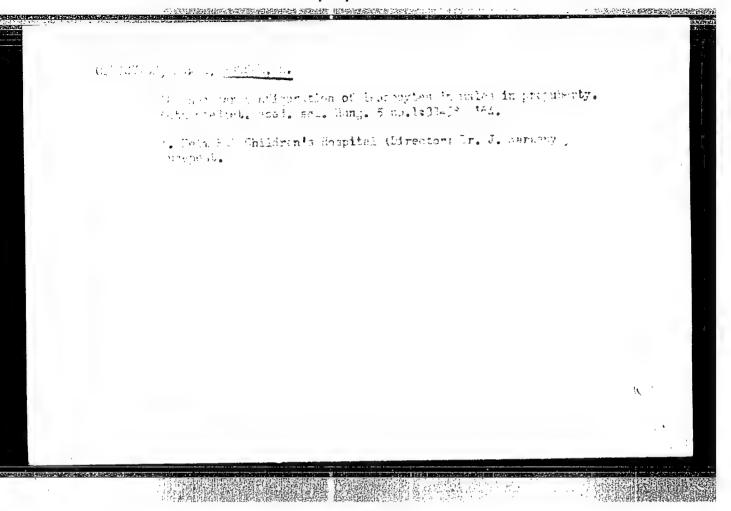
(PELVIMETRY)

BARANYAI, Pal, dr.; FOCHER, Laszlo, dr.

Data on constitutional role of Pelger-Huet anomaly. Orv. hetil. 102 no.38:1782-1785 17 S '61.

1. Fovarosi Tanacs Heim Pal Gyermekkorhaza, Laboratorium es Idegosztaly, Budapest.

(LEUKOCYTES) (EPILEPSY blood)



Folian, Lastio, or.; Shekessi, Vilma, dr.

Epilepsy following Di-Fer-Te vaccination in monogygotic twins. Grv. hetil. 165 no.43:2045-2048 0 25 164.

1. Foverosi Tanacs Heim Fal Gyermekkornaz, Idegosztaly (vezeto: Focher Tamas dr.)

Nocturnal enursis in children. Orv. hetii. 106 ac.3:119-122
Ja 17 '64.

1. Fovarost Tarais, "Heim Pul" Gyernskkorhaz, Idenositaty
(fcorves: Focher Lansle dr.)

FOCK, Jeno

Let us accelerate socialist construction, let us develop our economic achievements. Munka 10 no.3:6-7 Mr '60.

1. Magyar Szocialista Munkaspart Politikai Bizottsaganak tagja, a Kozponti Bizottsag titkara.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413330010-6"

FOCK,				•	•
	Our economics the plans and	leaders should assume more responsibility in fulfilling increasing productivity. Ujit Lap 12 no.3:7 10 F '60.			
	1. Magyar Szo	ocialista Munkaspart politikai bizottsaganak tagja.			tagja.
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FOCK, Jeno (Budapest)

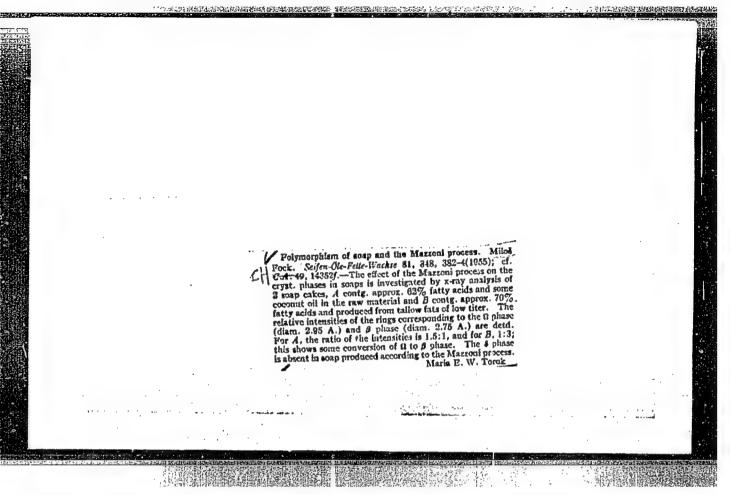
Our salute to the 3d National Conference of Innovators and Inventors. Ujit lap 13 no.23:3 D 161.

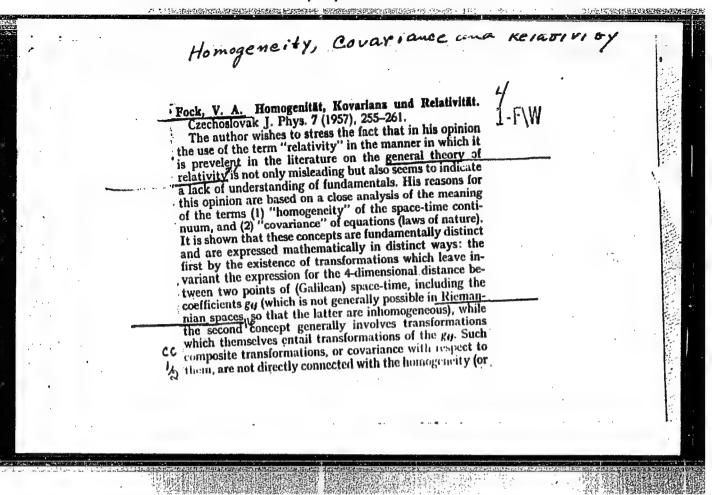
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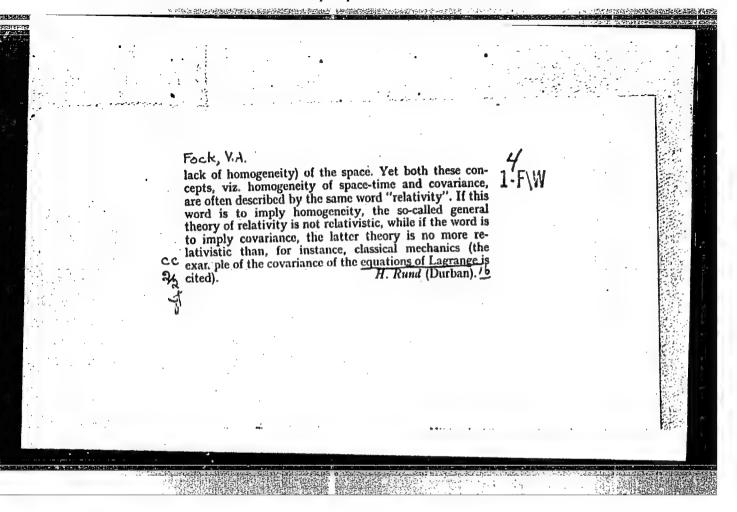
"New method in the soap industry; the manufacture of soap in a vacuum according to the Mazzoni oystem."

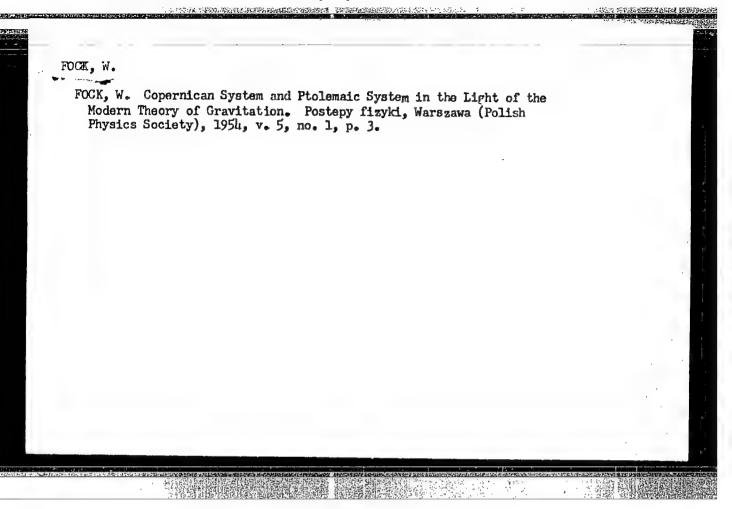
Kemija U Industriji, Zagreb, Vol 2, No 12, 1953, p. 377

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress









STANKOVIC, D.; KANTA, F.; ALJINOVIC,M.; FOCC, S.

Hearing disorders fol wing repeated carton con mice poisoning. Acta med. Iugosh. 18 no.2095-106 164

l. Institut za patolosku fiziologija i Institut za higijemu i socijalnu medicinu. Medizinskog fakultetu u Sarajevu.

RUWANIA / Chemical Technology. Chemical Products and Their Applications. Chemical Wood Products. Hydrolysis Industry.

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 13336.

计图像探索的 经经验证据

Author : Vasilescu, I.; Focsa, C.; Cojocaru, C.

Inst : Not given.
Title : Production of Nutritional Yeasts in Hydrolyzates

of Cane Wastes.

Orig Pub: Lucrarile Inst. cercetari aliment., 1958, 2, 9-20.

Abstract: Production of celulose from cane can be profitable by utilizing its wastes. These wastes in the form of hydrolyzates and spent crude alkalis can be used for the production of nutritional yeasts. A hydromodel of hydrolysis was established. A process was developed for adapting yeasts of the Torulopsis utilis type to hydrolyzates of cane

Card 1/2

H

POLAND / Chemical Technology. Chemical Products and Their Applications. Chemical Wood Products. Hydrolysis Industry.

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 13323.

Abstract: investigated for saturated wood not subjected to flushing as well as for wood saturated and alkalized with water. The corrosive effect of NaCl and H₂SiF₆ solutions on common steel was studied. It was established that the method indicated for saturation is useful for wood saturation. Outlay for such saturation is six times lower than with the "flural'sil" which is usually used: -- From the author's resume.

Card 2/2

103

Determining filtering quality of Rumanian diatomites. Studii cerc chimie 10 no.2:267-273 '62. 1. Laboratorul de industrii fermentative, Institutul de cercetari alimentare, Bucuresti.

L 33038-66 T DJ/WE

ACC NR: AP6024217

SOURCE CODE: RU/0007/65/016/009/0488/0491

AUTHOR: Vasilescu, I .-- Vasilesku, I .; Focsa, Carmen--Foksha, K.

30 B

ORG: none

TITLE: Method of estimating the n-paraffin hydrocarbons in gas-oils subjected to microbiological dewaxing.

SOURCE: Petrol si gaze, v. 16, no. 9, 1965, 488-491

TOPIC TAGS: hydrocarbon, dewaxing, urea, petroleum product, petrochemistry

ABSTRACT: A description of a method for determining n-paraffin hydrocarbons in gas-oils subjected to microbiological dewaxing. The method employs the property of urea of forming adducts with the n-paraffin hydrocarbons with more than 7 carbon atoms, and has been checked with pure n-hexadecane as reference substance. Use of the method for a gas-oil before and after dewaxing gave n-paraffin values of 22.5 and 0.15 percent respectively. Orig. art. has: 4 tables. [Based on authors Eng. abstract] [JPRS]

SUB CODE: 11, 07 / SUBM DATE: none / OTH REF: 007

Card 1/1

UDC: 665.545.3:547.21.04:665.521.4

1868

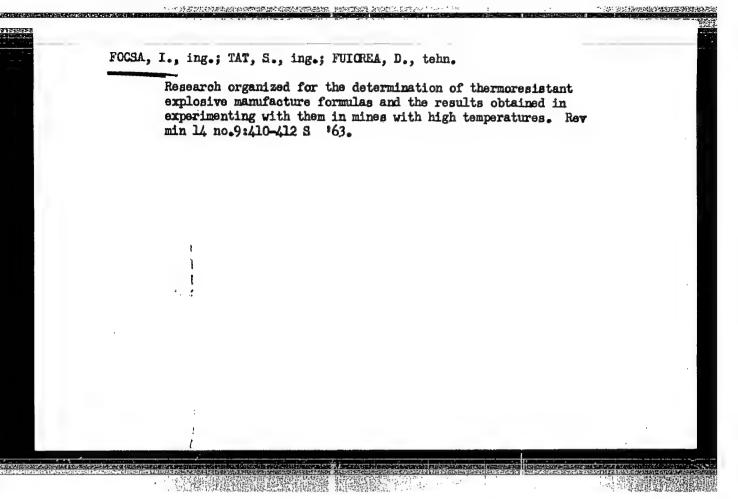
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· 中国的特别的特别的特别。据由他对对对自己的对象。

JUGUREANU, N., ing.; FOCSA, I., ing.; TAT, Sabin, ing.

Technique of shooting in atmospheric methane in advancing work where detonating explosives are used. Rev min 13 no.8:384-389 Ag '62.



FOCSA, I., ing.; TAT, S., ing.

Achievements obtained in the problem of fireproof explosives.

Rev min 15 no.11:560-562 % '54.

H-13

FOCSA, VIRGIL

RUMANIA/Chemical Technology - Chemical Products and Their Application. Ceramics. Glass. Binders. Concrete.

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25855

Author : Focsa Virgil, Alexandrescu Adrian, Alexandrescu Florica

Inst : Insi Polytechnic Institute.

Title : Foam-Ceramics and the Possibilities of Their Use in

Building.

Orig Pub : Bul. Inst. politchn. Iasi, 1956, 2, No 3-4, 389-400.

Abstract: Results of investigations of a new building material -foam-ceramics (FC), produced by firing at 900-950° a mixture of clay and foaming agent. Decrease of shrinkage
of the utilized raw material, containing up to 32% of

clay, was attained by the use of clay that had been dehydrated at 400°, in an amount of 20% with addition of 0.5-1% cement. Thermal coefficients of articles

Card 1/2

RUMANIA/Chemical Technology - Chemical Products and Their Application. Ceramics. Glass. Binders. Concrete.

Abs Jour

: Ref Zhur - Khimiya, No 8, 1958, 25855

made of FC are from 0.09 to 0.19 cal/m3. teristics of FC thus produced are given as well as the fields of their utilization.

Card 2/2

- 23 -

FOCSA, V.

Calculation of longtidudinal reingorced masonry sections. p. 126. (Standardizarea, Vol. 9, Mo. 3, Mar. 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug. 1957. Uncl.

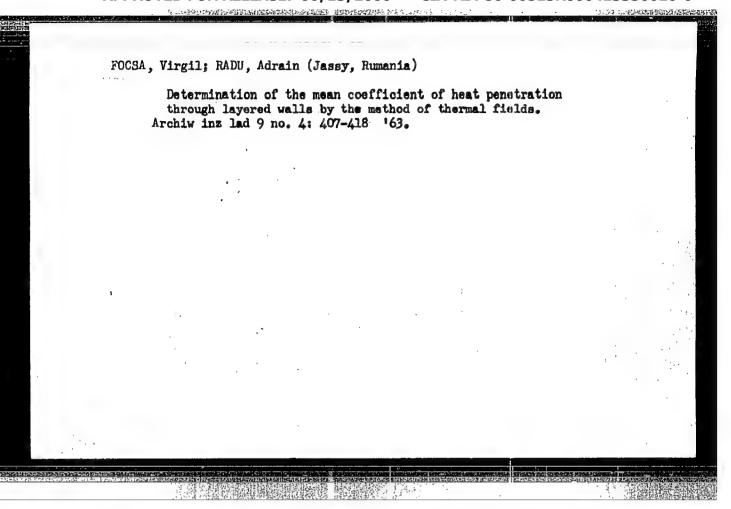
FOCSA, V.

TECHNOLOGY

Periodicals: REVISTA CONSTRUCTILLOR SI A MATERIALELOR DE CONSTRUCTII
Vol. 10, no. 19, Noy. 1958

FOCSA, V. Thermal behavior of roofs of certain industrial buildings. p.488

Monthly List of East European Accessions (EEAI) IC, Vol. 8, No. 2, February 1959, Unclass.



FOCSA, V., conf. ing.; RADU, A., ing.; VERES, Al. ing.

Thermal resistance of masonry work in materials with vertical holes. Rev constr si mat constr 15 no. 11: 586-591 N '63.

PITIS, I., dr. FOCSAMEANU, A., dr inz.; ANTUNIU, M.; WOYNARUWSKI, Zbigniew, doc. inz. [translator]

Studies on mold resistance of some electroinsulating compounds. Przegl elektrotechn 39 no.12:472-474 D'63.

1. Instytut Elektrotechniki, Bukareszt (for Pitis, Focsameanu, Antoniu). 2. Politechnika, Gdansk (for Woynarowski).

FOCSANEANU, A.

Category : RUMANIA/General Problems - Problems of Teaching

A-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 2818

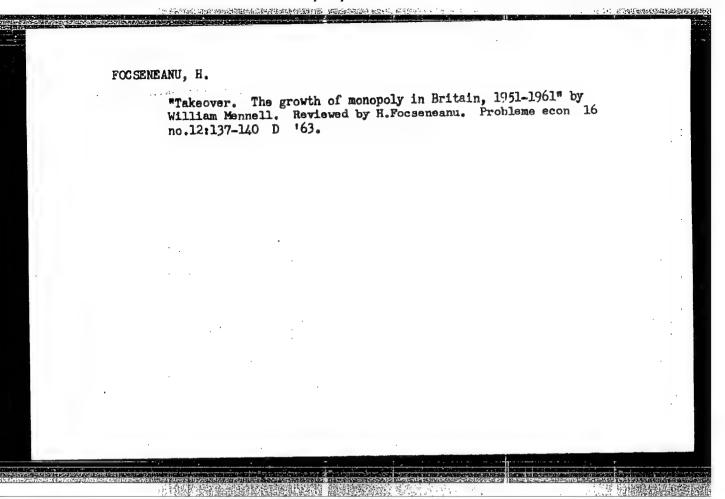
Author : Focsaneanu, Antonia

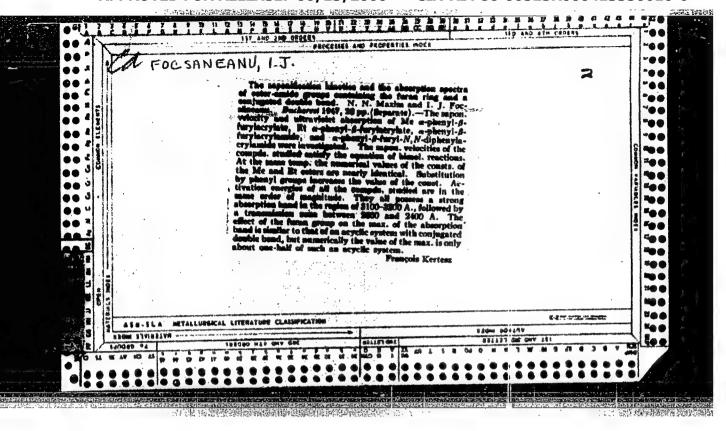
Title : Teaching the Topic "Electromagnetic Induction."

Orig Pub : Gaz. mat. si fiz., 1956, AB, No 3, 147-159

Abstract : No abstract

Card : 1/1





"我""特别的现在对我们,我是我们的表现我的问题,是是我感觉的解析。

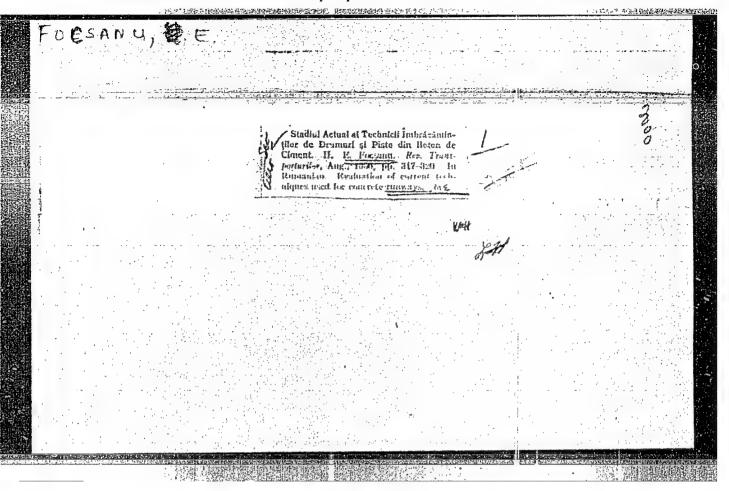
J.
FOCSANEANU, I.; SAVULESCU, A.; BONTEA, V.

Effectiveness of some organic preparations in fighting the vine mildew (Plasmopara viticola (Berk. et Curt.) Berl. et de Toni) and the apple speckles (Endostigme inequalis (Cooke Syd.) p. 313.

COMUNICARTIE. Bucuresti, Rumania. Vol. 8, no. 3, Mar. 1958.

Monthly List of East European Accession (EEAI), LC, Vol. 8, No. 9, September, 1959. Uncl.

-FOCSANEANU-1.J. COUNTRY Humania H-18 CATEGORY ABS. JOUR.: AZKhim., No. 20 1959, No. 72453 : Bavalescu, A.; Bontea, V.; Focsaneanu, I. J.; AUTHOR If W. : Rumaniza Academy TITLE : Effectiveness of Domestic Organomercury Fregaration in Control of Apple Scab [Endostigme inaequalis (Cooke) Syd.] ORIG. PUB. : Studii si cercetari biol. Acad. RPR Ser. biol. veget., 1958, 10, No 4, 393-408 ABSTRACT : In testing a number of organic preparations for control of apple scab, to find a substitute for Bordeaux mixture (BM), the most effective was found to be Merphazin, containing phenylmercurochloride. The quality of fruit, their taste, contents of sugar and vitamine C, are higher than those of apples treated with BM. The preparation can be recommended for control of apple scab, at concentration of 0.2% prior to blossoming, and of 0.1% after blossom. To preclude instances of poisoning, other preparations containing no Hg should be used in the last application. I. Mil'shtevn. CARD: * Suta, V.; Giurea, M.



FOCSENEANU D.

Category : RUMANIA/Atomic and Molecular Physics . Heat

D.4

Abs Jour : Ref Zhur - Fizike, No 3, 1957, No 6274

Author : Focseneenu D.

Title : Unavoidable Errors in the Measurement of Temperature

Orig Fub : Metrol. apl. 1956, 3, No 3, 38-40

Abstract: In the measurement of the temperature of any medium, there occur errors owing to the parasitic heat exchange between the thermometer and those neighboring bedies of media that have a different temperature. The most important cases of parasitic hoat exchange are: radiation occurring when measuring the gas temperature, convection due to incomplete immersion of the thermometer in the liquid, convection and radiation occurring when measuring the surface temperature of the solid body by contact, and radiation occurring in the measurement of temperature by means of an optical pyrometer. The first two cases are considered in detail. Recommendations

are given for the reduction of the errors.

Card : 1/1

1、1961年1月1日在北京的中央市场的中央市场的

MUNTEANU, Corneliu (Bucuresti); PESTROIU, Daniel (Tirgu Jiu); PIRSAN, Liviu (Bucuresti); VOICULESCU, Dan (Bucuresti); ALEESCU, I. (Pargaras)
PELTEANU, Ioan (Bucuresti); STANCU, I.M. (Bucuresti); CHITESCU,
Ion (Bucuresti); STANESCU, Ilie (Sibiu); IONESCU, Fraian (Braila);
KACSO, F. (Cluj); MANESCU, L. (Rimmicu Vilcea); IONESCU-TIU, C.;
FOCSENEANU, M.I.; POPA, Eugen (Iasi); MIHALCA, Dar. (Bucuresti); PELIGRAD
Nicolee, prof. (Piterti), DENA, J. Dorin (Cornesphes); STANCU, Icn M.
(Bucuresti)

BEKE, Denes; B. BARCZAI, Marietta; FOCZE, Lajos

Data on the chemistry of heterocyclic, pseudobasic amine carbinols. XX. Preparation of quaternary 3,4-dihydroisoquinoline salts by the interaction of 2-(3 -bromoethyl)-benzaldehyde and amines of the 1st order. Magy kem folyeir 67 no.12:517-519 D 161.

1. Budapesti Muszaki Kgyetem Szerves-Kemiai Tanszeke. 2. Szerkeszte bizottsagi tag, "Magyar Kemiai Folyeirat" (fer Beke).

S/021/62/000/012/002/018 D251/D308

AUTHOR:

Fodehuk, V.I.

TITLE:

Some existence and uniqueness theorems for differen-

tial equations with a delayed argument

PERIODICAL:

Akademiya nauk Ukrayina'koyi RSR. Dopovidi, no. 12.

1962. 1541-1545

The author considers the differential equation with

a delayed argument

 $\frac{dx(t)}{dt} = f[t,x(t),x(t-\Delta)],$ (1)

where $t \gg t_0$, and Δ is some positive delay. The initial condi-

tions are given by

 $x(t) = \varphi(t)$ for $t \in [t_0 - , t_0]$,

where $\varphi(t)$ is some given positive function, defined in $[t_0 - \Delta, t_0]$. The following general existence and uniqueness theorems, which are analogous to the Caratheodory theorems are proved. Theorem 1: Card 1/3

\$/021/62/000/012/002/018 D251/D308

Some existence...

(Existence) If the function f(t,x,y) is defined in the parallelepip-R: $|x - \varphi(t_0)| \le a$, $|y - \varphi(t_0)| \le a$, $t_0 \le t \le t_0 + T_0$ (3)

where a and T_0 are positive constants, and is commensurate with t for fixed x,y, and is continuous with respect to x,y for fixed t, and if the point $\{t_0, \varphi(t_0), \varphi(t_0-\Delta)\}$ lies in R, and if there exists in the interval $[t_0, t_0+T_0]$ a function m(t) that is integrable in the Lebesque sense and dominates |f| in R, then for some interval $[t_0-\Delta, t_0+T]$ $T \le T_0$, there exists a function x(t), absolutely continuous on $[t_0, t_0+T]$ satisfying (1) and (2) almost everywhere, the curve of which lies in R for $t_0 \le t \le t_0+T$. Theorem 2: If the conditions of theorem 1 are satisfied, and if x(t) is a solution of (1). (2), and if there exists a function L(t)x(t) is a solution of (1), (2), and if there exists a function L(t) integrable in the Lebesque sense such that $|f(t,\bar{x},\bar{y}) - f[t,x(t),x(t-\Delta)]| \le L(t) \{|\bar{x}-x(t)|$

for an arbitrary point, t, \bar{x}, \bar{y} , then the solution of (1), (2) is unique.

Card 2/3

Some existence ... S/021/62/J000/012/002/018

ASSOCIATION: Instytut matematyky AN URSR (Institute of Mathematics of the AS URSSR)

PRESENTED: by Yu.A. Mytropol's'kyy, Academician

SUBMITTED: June 9, 1962

Card 3/3

33863

16.3400 16.3900 S/041/62/014/001/004/007 B112/B104

AUTHORS:

Rubanik, V. P., Fodchuk, V. I. (Chernovtsy)

TITLE:

Existence and properties of a bounded solution of a system

of quasi-linear differential-difference equations

PERIODICAL:

Ukrainskiy matematicheskiy zhurnal, v. 14, no. 1, 1962,

87 - 92

The authors consider a system of quasi-linear differential-difference equations of the form

 $du(t)/dt = \sum_{l=0}^{\infty} H_l u(t - \Delta_l) + F(t, u(t), u(t - \Delta_l), \dots, u(t - \Delta_r), \varepsilon).$

The real parts of the roots of the equation

$$Det(Ez - \sum_{l=0}^{r} H_{l}e^{-2}) = 0$$

are assumed to be negative. It is demonstrated that an unambiguous, Card 1/2

33863

Existence and properties of a...

S/041/62/014/001/004/007 B112/B104

bounded, asymptotically (t $\rightarrow \infty$) stable solution $u = \varphi(t, \mathcal{E})$ exists, which is periodic if F is periodic. The proofs are due to N. N. Bogolyubov (cf. O nekotorykh statisticheskikh metodakh v matematicheskoy fizike - On certain statistical methods in mathematical physics, K., 1945; Asimptoticheskiye metody v teorii nelineynykh kolebaniy - Asymptotic methods in the theory of nonlinear oscillations, Fizmatgiz, M., 1958). There are 5 references: 3 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: E. M. Wright, The linear difference-differential equations, Proc. Roy. Soc., Edinburg, ser. A, 62, I, 1949; R. Bellman, On the existence and boundedness of solutions of nonlinear differential-difference equations, Ann. Math., 2, 1949.

SUBMITTED: July 23, 1960

Card 2/2

S/041/62/014/002/008/008 B172/B112

AUTHOR:

Fodchuk, V. I.

TITLE:

Existence and properties of an integral manifold of a system of differential equations with retarded argument

PERIODICAL:

Ukrainskiy matematicheskiy zhurnal, v. 14, no. 2, 1962,

227-231

The author considers a system of n+1 equations of the form TEXT: dh(t)

= $Hh(t)+H_1h(t-\triangle)+Q(t,g(t),g(t-\triangle),h(t),h(t-\triangle),\epsilon)$, dt

dg(t)= $\langle +P(t,g(t),g(t-\Delta),h(t),h(t-\Delta),\epsilon)$, where h(t) and $h(t-\Delta)$ are dt vectors of the n-dimensional Euclidean space; g(t) is a scalar function; ω is a constant; Δ is a constant > 0; H and H, are constant matrices of

the n-th order. Conditions are stated under which the system possesses an integral represented as $h = f(t,g(t),g(t-\Delta),\epsilon)$. In addition to two theorems relating to the properties of continuity and differentiability of f,

Card 1/2

S/041/62/014/002/008/008 B172/B112

Existence and properties of an ...

a theorem is formulated which states that every solution of the system that fulfills certain initial conditions asymptotically approaches one single integral manifold of the above-mentioned type. The proofs are due to N. N. Bogolyubov.

SUBMITTED: July 22, 1961, Kiyev

Card 2/2

11.2410

13393 \$/041/62/014/004/007/007 B172/B112

AUTHOR:

Fodchuk, V. I. (Kiyev)

TITLE:

On the construction of asymptotic solutions to nonstationary differential equations with lagging argument and small

parameter

PERIODICAL:

Ukrainskiy matematicheskiy zhurnal, v. 14, no. 4, 1962, 435 - 440

TEXT: The equations of the form $\ddot{x}(t) + p_1(v) \dot{x}(t) + q_1(v) \dot{x} \cdot \left[t - v_1(v)\right] + p_2(v) x(t) + q_2(v) x \left[t - v_2(v)\right] - \mathcal{E}f(v, x(t), x \left[t - v_2(v)\right], \dot{x}(t), \dot{x} \left[t - v_1(v)\right]; \ \mathcal{T} = \mathcal{E}t \quad (1);$ are considered where \mathcal{E} is a small positive parameter, $\dot{v}_1(v), \dot{v}_2(v)$ are non-negative functions; f, p_1 , p_2 , q_1 , q_2 , \dot{v}_1 , \dot{v}_2 shall be differentiable any number of times for all finite arguments. For v_0 from v_0 , v_1 the degenerate equation $v_1(v) + v_1(v_0) \dot{x}(v) + v_1(v_0) \dot{x}(v) + v_2(v_0) x(v) + v_2(v_0) x \left[t - v_1(v_0)\right] = 0$ shall have the periodic family of solutions Card 1/2

On the construction of ... S/041/62/014/004/007/007 B172/B112

 $x(t) = a \cdot \cos \left[\omega(\mathcal{T}_0)t + \varphi\right] \text{ where } a \text{ and } \varphi \text{ are arbitrary constants and } \omega(\mathcal{T}_0) \text{ is a simple root of the system } \omega^2 + q_1(\mathcal{T}_0) \sin \left[\omega \mathcal{V}_1(\mathcal{T}_0)\right] + q_2(\mathcal{T}_0) \cos \left[\omega \mathcal{V}_2(\mathcal{T}_0)\right] = 0,$ $-p_1(\mathcal{T}_0) \omega - q_1(\mathcal{T}_0) \omega \cos \left[\omega \mathcal{V}_1(\mathcal{T}_0)\right] + q_2(\mathcal{T}_0) \sin \left[\omega \mathcal{V}_2(\mathcal{T}_0)\right] = 0; \quad n\omega(\mathcal{T}_0)$ $(n=0, 2, 3, \ldots) \text{ must not be roots of this system. The formulation}$ $x(t) = a \cos \psi + \mathcal{E}u_1(\mathcal{T}, a, \psi) + \mathcal{E}^2u_2(\mathcal{T}, a, \psi) + \ldots, \text{ is chosen for solving}$ $(1). \text{ In this formulation } \mathcal{M}, \mathcal{M}_2 \text{ are periodic functions of } \psi \text{ with the period}$ $2\mathcal{M}, \mathcal{T} = \mathcal{E}t, \text{ and } a, \psi \text{ are solutions to the system } \frac{da}{dt} = \mathcal{E}\Lambda_1(\mathcal{T}, a) + \mathcal{E}^2\Lambda_2(\mathcal{T}, a) + \ldots,$ $\frac{d\psi}{dt} = \omega(\mathcal{T}) + \mathcal{E}B_1(\mathcal{T}, a) + \mathcal{E}^2B_2(\mathcal{T}, a) + \ldots. \text{ The measurements made give explicit}$ expressions for Λ_1 , B_1 and u_1 .

SUBMITTED: June 14, 1962

Card 2/2